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(FILE 'USPAT' ENTERED AT 12:58:52 ON 25 FEB 1999)

FILE 'USOCR' ENTERED AT 12:59:56 ON 25 FEB 1999

L1 1 S (POLYSACCHARIDE FIBER#) OR (POLYSACCHARIDE FIBRE#)
L2 814 S FIBER#/TI OR FIBRE#/TI
L3 11 S L2 AND POLYSACCHARIDE#
L4 4 S L3 AND (CROSSLINK? OR (CROSS LINK?))
L5 7 S L3 AND (ALCOHOL OR KETONE OR METHANOL OR ETHANOL OR IOSP
ROP

FILE 'USPAT' ENTERED AT 13:21:36 ON 25 FEB 1999

L6 21430 S FIBER#/TI OR FIBRE#/TI
L7 179 S L6 AND POLYSACCHARIDE#
L8 111 S L7 AND (ALCOHOL OR KETONE OR METHANOL OR ETHANOL OR ISOP
ROP
L9 46 S L8 AND (CROSSLINK? OR (CROSS LINK?))
L10 0 S L9 AND (POLYVINYLAMINE OR POLYBRENE OR HEXADIMETHRINBROM
IDE

=> d 15 1-7

NO ANSWERS DISPLAYED.

THE ANSWER SET WAS CREATED IN FILE 'USOCR'.

USE THE FILE COMMAND TO CHANGE TO THE CORRECT FILE.

=> file usocr

FILE 'USOCR' ENTERED AT 13:53:26 ON 25 FEB 1999

=> d 14 1-4

1. OCR DATA 3,810,784, May 14, 1974, REVERSIBLE SHEAR THINNING GEL COATED GLASS **FIBER** STRAND; NAME MAY BE IN MISC FIELD, 428/378; 385/128, 141; 428/392 [IMAGE AVAILABLE]
2. OCR DATA 3,533,768, Oct. 13, 1970, METMOD OF COATH*G **FIBERS** USING SHEAR THINNING GEL FORMING MATERIALS; NAME MAY BE IN MISC FIELD, 65/448, 453; 427/256, 386 [IMAGE AVAILABLE]
3. OCR DATA 3,531,344, Sep. 29, 1970, PROCESS FOR MAKING NONWOVEN FABRIC OF REGENERATED CELLULOSIC **FIBERS**; NAME MAY BE IN MISC FIELD, 156/83; 8/125; 156/181; 427/381, 428; 428/361; 536/101 [IMAGE AVAILABLE]
4. OCR DATA 3,497,584, Feb. 24, 1970, METMGD OF PREPARING **POLYSACCHARIDE** FILMS AND **FIBER**. OF PAPER REINFORCED **POLYSACCHARIDE** FILMS; NAME MAY BE IN MISC FIELD, 264/137, 186, 187, 188, 209.1, 216, 217, 218; 536/33, 57, 61 [IMAGE AVAILABLE]

=> d 15 1-7

1. OCR DATA 3,827,900, Aug. 6, 1974, ANTISTAT AMD Bfndeir FOIR GLASS **FIBERS**; NAME MAY BE IN MISC FIELD, 106/287.15, 287.11, 287.16, 287.24, 287.26, 287.27, 901; 260/DIG.15 [IMAGE AVAILABLE]

2. OCR DATA 3,810,784, May 14, 1974, REVERSIBLE SHEAR THINNING GEL COATED GLASS **FIBER** STRAND; NAME MAY BE IN MISC FIELD, 428/378; 385/128, 141; 428/392 [IMAGE AVAILABLE]
3. OCR DATA 3,698,856, Oct. 17, 1972, TREATMENT OF TEXTfLE **FIBERS**; NAME MAY BE IN MISC FIELD, 8/115.62, 115.64, 116.1, 120, 128.1; 524/377, 378, 544; 526/245, 247 [IMAGE AVAILABLE]
4. OCR DATA 3,698,852, Oct. 17, 1972, AMfNO ACID/PH'E*LAMINE REACTANT D. YES ferred to as "PPDA." FOR KERATINOUS **FIBERS** AND MVING HAIR By "fresh oxidation product" is meant that; NAME MAY BE IN MISC FIELD, 8/412, 408 [IMAGE AVAILABLE]
5. OCR DATA 3,679,507, Jul. 25, 1972, METHOD OF PRODUCING A COATED GLASS **FIBER** STRAND; NAME MAY BE IN MISC FIELD, 156/148; 57/249, 250; 156/180; 427/417; 428/378, 392; 976/DIG.436 [IMAGE AVAILABLE]
6. OCR DATA 3,533,768, Oct. 13, 1970, METMOD OF COATH*G **FIBERS** USING SHEAR THINNING GEL FORMING MATERIALS; NAME MAY BE IN MISC FIELD, 65/448, 453; 427/256, 386 [IMAGE AVAILABLE]
7. OCR DATA 3,497,584, Feb. 24, 1970, METMGD OF PREPARING **POLYSACCHARIDE** FILMS AND **FIBER**. OF PAPER REINFORCED **POLYSACCHARIDE** FILMS; NAME MAY BE IN MISC FIELD, 264/137, 186, 187, 188, 209.1, 216, 217, 218; 536/33, 57, 61 [IMAGE AVAILABLE]

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FILE 'USPAT' ENTERED AT 13:54:36 ON 25 FEB 1999

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*           W E L C O M E   T O   T H E           *
*           U . S .   P A T E N T   T E X T   F I L E           *
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=> d 19 1-46

1. 5,801,151, Sep. 1, 1998, Estimation of ovular **fiber** production in cotton; Jack Van't Hof, 514/23; 435/1.1, 40.5, 378, 379, 427 [IMAGE AVAILABLE]
2. 5,693,411, Dec. 2, 1997, Binders for binding water soluble particles to **fibers**; Michael R. Hansen, et al., 442/417; 428/378; 442/327 [IMAGE AVAILABLE]
3. 5,688,923, Nov. 18, 1997, Pectin **fibers**; Timothy C. Gerrish, et al., 536/2; 127/29; 602/41, 42, 45, 48, 52 [IMAGE AVAILABLE]
4. 5,683,772, Nov. 4, 1997, Articles having a starch-bound cellular matrix reinforced with uniformly dispersed **fibers**; Per Just Andersen, et al., 428/36.4; 206/524.3, 524.6, 524.7; 428/53, 220, 310.5, 314.4, 317.9, 318.8, 319.3, 339, 365 [IMAGE AVAILABLE]
5. 5,679,145, Oct. 21, 1997, Starch-based compositions having uniformly dispersed **fibers** used to manufacture high strength articles having a **fiber**-reinforced, starch-bound cellular matrix; Per Just Andersen, et al., 106/162.5, 162.51, 162.9, 164.01, 205.01, 206.1, 217.01, 287.35, 400; 536/102 [IMAGE AVAILABLE]
6. 5,662,731, Sep. 2, 1997, Compositions for manufacturing **fiber**-reinforced, starch-bound articles having a foamed cellular matrix; Per Just Andersen, et al., 106/206.1, 217.01, 400; 521/68, 84.1; 523/128; 536/102, 107 [IMAGE AVAILABLE]

7. 5,653,967, Aug. 5, 1997, Cosmetic product including water soluble **fiber**; Lawrence J. Murphy, 424/70.1, 59; 514/23, 777, 847 [IMAGE AVAILABLE]
8. 5,641,561, Jun. 24, 1997, Particle binding to **fibers**; Michael R. Hansen, et al., 442/417; 428/407 [IMAGE AVAILABLE]
9. 5,618,341, Apr. 8, 1997, Methods for uniformly dispersing **fibers** within starch-based compositions; Per J. Andersen, et al., 106/287.35, 162.5, 162.51, 164.01, 205.01, 206.1 [IMAGE AVAILABLE]
10. 5,614,570, Mar. 25, 1997, Absorbent articles containing binder carrying high bulk **fibers**; Michael R. Hansen, et al., 524/13; 428/372; 523/204, 205, 206, 207, 208, 215, 216, 217 [IMAGE AVAILABLE]
11. 5,589,256, Dec. 31, 1996, Particle binders that enhance **fiber** densification; Michael R. Hansen, et al., 442/417; 8/115.51, 115.54, 115.6, 115.7, 116.4, 120, 127.6, 128.1, 186; 19/145, 148, 304; 38/144; 156/62.6, 62.8, 296, 305; 162/136, 141, 157.6, 158, 159, 161, 163, 182, 184, 205; 424/402, 403, 404; 427/180, 196, 212, 214, 336, 365, 392, 394, 396, 402; 428/74, 76, 361, 372, 380, 902; 604/304, 307, 365, 367, 374, 375, 378 [IMAGE AVAILABLE]
12. 5,587,197, Dec. 24, 1996, Process for production of water-soluble vegetable **fiber**; Hirokazu Maeda, et al., 426/658; 127/37; 426/431, 481, 507, 634, 804 [IMAGE AVAILABLE]
13. 5,573,785, Nov. 12, 1996, Cosmetic component including water soluble **fiber**; Lawrence J. Murphy, 424/70.1, 59; 514/23, 777, 847 [IMAGE AVAILABLE]
14. 5,571,618, Nov. 5, 1996, Reactivatable binders for binding particles to **fibers**; Michael R. Hansen, et al., 428/359, 357, 364, 372, 375, 393 [IMAGE AVAILABLE]
15. 5,547,541, Aug. 20, 1996, Method for densifying **fibers** using a densifying agent; Michael R. Hansen, et al., 162/12, 158, 166, 168.1, 181.1, 184 [IMAGE AVAILABLE]
16. 5,543,215, Aug. 6, 1996, Polymeric binders for binding particles to **fibers**; Michael R. Hansen, et al., 442/417; 428/378, 393 [IMAGE AVAILABLE]
17. 5,538,783, Jul. 23, 1996, Non-polymeric organic binders for binding particles to **fibers**; Michael R. Hansen, et al., 442/417; 428/913 [IMAGE AVAILABLE]
18. 5,520,200, May 28, 1996, Process for the non-lasting reshaping of keratinous **fibres**; Jean-Michel Sturla, 132/206, 211 [IMAGE AVAILABLE]
19. 5,516,524, May 14, 1996, Laxative compositions containing bulk **fiber**; Theresa M. Kais, et al., 424/439, 78.01, 195.1, 451, 464, 489; 514/892 [IMAGE AVAILABLE]
20. 5,503,668, Apr. 2, 1996, Corrugating adhesive incorporating solubilized cellulosic **fiber** and polyvinyl **alcohol**; J. E. Todd Giesfeldt, et al., 106/217.7 [IMAGE AVAILABLE]
21. 5,447,977, Sep. 5, 1995, Particle binders for high bulk **fibers**; Michael R. Hansen, et al., 524/13; 428/372; 523/204, 205, 206, 207, 208, 215, 216, 217 [IMAGE AVAILABLE]
22. 5,352,480, Oct. 4, 1994, Method for binding particles to **fibers** using reactivatable binders; Michael R. Hansen, et al., 427/202, 205; 428/372, 393; 604/368 [IMAGE AVAILABLE]

23. 5,308,896, May 3, 1994, Particle binders for high bulk **fibers**; Michael R. Hansen, et al., 524/13; 428/372; 523/204, 205, 206, 207, 208, 209, 215, 216, 217 [IMAGE AVAILABLE]
24. 5,280,548, Jan. 18, 1994, Emission based **fiber** optic sensors for pH and carbon dioxide analysis; Beauford W. Atwater, et al., 385/12, 143 [IMAGE AVAILABLE]
25. 5,252,494, Oct. 12, 1993, **Fiber** optic sensors, apparatus, and detection methods using controlled release polymers and reagent formulations held within a polymeric reaction matrix; David R. Walt, 436/528; 385/123, 125, 144, 145; 422/58, 82.05, 82.06, 82.07, 82.08, 82.09, 82.11; 435/7.7, 7.72, 7.9, 287.7, 288.7, 808; 436/164, 172, 531, 535, 800, 805, 807 [IMAGE AVAILABLE]
26. 5,230,853, Jul. 27, 1993, Process for making **polysaccharide fibers**; George T. Colegrove, et al., 264/186, 211.11 [IMAGE AVAILABLE]
27. 5,228,992, Jul. 20, 1993, Process for preparing hollow **fiber** separatory devices; Peter J. Degen, 210/321.8, 321.89, 500.23; 264/41, 219, 232, 330, 523 [IMAGE AVAILABLE]
28. 5,143,583, Sep. 1, 1992, Preparation and synthesis of magnetic **fibers**; Robert H. Marchessault, et al., 162/138, 146, 157.6, 181.5, 182 [IMAGE AVAILABLE]
29. 5,139,037, Aug. 18, 1992, Cosmetic composition for treating keratin **fibres**, and process for treating the latter; Jean F. Grollier, et al., 132/203, 204, 205, 206 [IMAGE AVAILABLE]
30. 5,089,252, Feb. 18, 1992, Cosmetic composition for treating keratin **fibres**, and process for treating the latter; Jean F. Grollier, et al., 424/47; 8/405; 132/202, 203, 204; 424/70.14, 70.16, 70.17, 70.19, 78.03; 514/937, 944, 945 [IMAGE AVAILABLE]
31. 5,071,681, Dec. 10, 1991, Water absorbent **fiber** web; James H. Manning, et al., 427/392, 393; 442/67, 118; 604/374, 375 [IMAGE AVAILABLE]
32. 4,997,519, Mar. 5, 1991, Deep-colored **fibers** and a process for manufacturing the same; Yoshikazu Kondo, et al., 216/67; 8/444, 495, 496; 216/58; 427/353, 389.9, 392 [IMAGE AVAILABLE]
33. 4,961,937, Oct. 9, 1990, A composition of flours containing vital gluten and soluble oat dietary **fiber** and a baked product produced therefrom; Harry W. Rudel, 426/19, 549, 551, 552, 554, 555 [IMAGE AVAILABLE]
34. 4,931,524, Jun. 5, 1990, Surface-treatment of synthetic or semi-synthetic **fiber** textile materials; Kazuo Sato, et al., 527/301, 302; 528/45, 59, 67 [IMAGE AVAILABLE]
35. 4,900,625, Feb. 13, 1990, Deep-colored **fibers** and a process for manufacturing the same; Yoshikazu Kondo, et al., 428/383, 375, 380, 391 [IMAGE AVAILABLE]
36. 4,876,102, Oct. 24, 1989, Potato based dough containing highly pectinated cellulosic **fibers**; Robert D. Feeney, et al., 426/550, 439, 637, 808 [IMAGE AVAILABLE]
37. 4,842,849, Jun. 27, 1989, Composition intended for the treatment of keratin **fibres**, based on a cationic polymer and an anionic polymer containing vinylsulphonic groups; Jean F. Grollier, et al., 424/70.13;

8/405; 424/70.11, 70.15, 70.16, 70.17, DIG.2 [IMAGE AVAILABLE]

38. 4,834,768, May 30, 1989, Dyeing compositions for keratin **fibers** based on direct dyestuffs and xanthane gums; Jean F. Grollier, 8/405, 406, 414, 415, 416, 426, 428; 424/47; 514/782, 937, 944 [IMAGE AVAILABLE]

39. 4,629,774, Dec. 16, 1986, Post-treatment of synthetic **fiber** fabrics; Kazuo Sato, et al., 527/301; 8/115.54, 115.66, 115.67; 525/54.22; 527/302 [IMAGE AVAILABLE]

40. 4,545,919, Oct. 8, 1985, Detergent composition for washing off dyeings obtained with **fibre**-reactive dyes and washing process comprising the use thereof; Heinz Abel, 8/137, 102, 441; 510/337, 341, 342, 343, 467 [IMAGE AVAILABLE]

41. 4,502,867, Mar. 5, 1985, Pad-dyeing and printing synthetic **fiber** materials using disperse dye and carboxyl synthetic polymer and **polysaccharide** thickener combination; Friedrich Reinhardt, 8/557, 558, 559, 561, 562, 921, 922, 924 [IMAGE AVAILABLE]

42. 4,336,299, Jun. 22, 1982, Use of modified cellulose hydrate **fibers** in the manufacture of bonded non-woven fabrics and products prepared in this manner; Arno Holst, et al., 442/415; 264/122, 128; 428/536, 904; 523/200, 205; 524/35 [IMAGE AVAILABLE]

43. 4,266,026, May 5, 1981, Catalytic process utilizing hollow **fiber** membranes; Barry R. Breslau, 435/99; 210/632, 638; 426/41; 435/182, 297.4, 299.1 [IMAGE AVAILABLE]

44. 4,128,692, Dec. 5, 1978, Superabsorbent cellulosic **fibers** having a coating of a water insoluble, water absorbent polymer and method of making the same; Albert R. Reid, 428/378; 427/212, 331, 336, 337, 342, 352 [IMAGE AVAILABLE]

45. 4,065,417, Dec. 27, 1977, Reversible shear thinning gel forming coating composition for glass **fibers**; Robert Wong, et al., 524/35; 106/203.2; 524/36, 46, 55, 56, 563; 528/27 [IMAGE AVAILABLE]

46. 3,962,094, Jun. 8, 1976, Hollow **fiber** separatory device; James C. Davis, et al., 210/321.61, 321.79 [IMAGE AVAILABLE]

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(FILE 'USPAT' ENTERED AT 15:56:40 ON 25 FEB 1999)
L1 20649 S POLYSACCHARIDE#
L2 7327 S L1 AND (CROSSLINK? OR (CROSS-LINK?))
L3 325 S L2 AND POLYELECTROLYTE
L4 7 S L3 AND POLYVINYLAMINE

=> d 14 1-7 cit ab

1. 5,658,915, Aug. 19, 1997, **Polyelectrolyte** complex antibacterial agent and antibacterial material; Koji Abe, et al., 514/255 [IMAGE AVAILABLE]

US PAT NO: 5,658,915 [IMAGE AVAILABLE] L4: 1 of 7

ABSTRACT:

An antibacterial agent characterized by containing a **polyelectrolyte** complex prepared by reacting a cationic polymer containing N.sup.+ atoms in repeating units thereof and an anionic polymer containing --COO.sup.--, --SO.sub.3.sup.--, or --PO.sub.3.sup.-- groups in repeating units thereof, and an antibacterial material carrying the above **polyelectrolyte** complex on a carrier.

2. 5,578,598, Nov. 26, 1996, **Polyelectrolyte** complex antibacterial agent in antibacterial material; Koji Abe, et al., 514/255, 561, 642, 643 [IMAGE AVAILABLE]

US PAT NO: 5,578,598 [IMAGE AVAILABLE] L4: 2 of 7

ABSTRACT:

An antibacterial agent characterized by containing a **polyelectrolyte** complex prepared by reacting a cationic polymer containing N.sup.+ atoms in repeating units thereof and an anionic polymer containing --COO.sup.--, --SO.sub.3.sup.--, or --PO.sub.3.sup.-- groups in repeating units thereof, and an antibacterial material carrying the above **polyelectrolyte** complex on a carrier.

3. 5,100,673, Mar. 31, 1992, Microencapsulation of biologically active material; Hebert Bader, et al., 424/451, 456 [IMAGE AVAILABLE]

US PAT NO: 5,100,673 [IMAGE AVAILABLE] L4: 3 of 7

ABSTRACT:

Polyelectrolyte membrane capsules are composed of a semi-permeable membrane and an active material enclosed by it, the membrane being formed of a biocompatible, non-toxic polyacid and a polybase; the polybase is composed of repeating monomer units of the formula (I) ##STR1## in which R.sup.1 and R.sup.2 have the indicated meanings.

4. 5,039,421, Aug. 13, 1991, Solvent stable membranes; Charles Linder, et al., 210/651, 490, 500.43, 654 [IMAGE AVAILABLE]

US PAT NO: 5,039,421 [IMAGE AVAILABLE] L4: 4 of 7

ABSTRACT:

A composite membrane for separating at least one dissolved or suspended

component from a liquid phase, and characterized by solvent stability, comprises:

(A) a substrate microfiltration, ultrafiltration or reverse osmosis membrane which has been initially formed from at least one member selected from non-**crosslinked** acrylonitrile homopolymers and copolymers, and non-**crosslinked** substituted acrylonitrile homopolymers and copolymers, and which has been subjected to at least one in situ **crosslinking** reaction; and

(B) superimposed upon the substrate membrane, at least one coating including at least one component selected from hydrophilic monomers containing reactive functions, hydrophilic oligomers containing reactive functions and hydrophilic polymers containing reactive functions, such reactive functions having been subjected to a post-coating **crosslinking** reaction.

5. 4,197,371, Apr. 8, 1980, Water vapor absorbing and transmitting sheet material of rubber containing a swellable **cross-linked** cellulose ether or starch ether and a process for the manufacture thereof; Arno Holst, et al., 521/84.1, 65, 71, 905, 916; 524/42, 43, 46, 50 [IMAGE AVAILABLE]

US PAT NO: 4,197,371 [IMAGE AVAILABLE]

L4: 5 of 7

ABSTRACT:

This invention relates to an improvement in a sheet material comprising natural or synthetic rubber or a rubber-like polymer, which is capable of absorbing and transmitting water vapor and which contains a uniformly incorporated addition of polymer particles, the improvement that the addition comprises particles of at least one swellable modified polymer. The invention also relates to a process for the manufacture of the sheet material.

6. 4,194,995, Mar. 25, 1980, Water vapor absorbing and transmitting adhesive, a process for the manufacture of this adhesive and use thereof; Walter Schermann, et al., 524/42, 50 [IMAGE AVAILABLE]

US PAT NO: 4,194,995 [IMAGE AVAILABLE]

L4: 6 of 7

ABSTRACT:

This invention relates to an improvement in a water vapor absorbing and transmitting adhesive containing at least one organic binding agent which is insoluble in water, and an addition of at least one hydrophilic polymer, the improvement that the hydrophilic polymer is a swellable modified polymer in the form of small particles. The invention also relates to a process for the manufacture of the adhesive.

7. 4,178,271, Dec. 11, 1979, Sheet-like structure of polyvinyl chloride, which is capable of absorbing water vapor and transmitting water vapor; Walter Busch, et al., 524/30; 204/157.68; 428/532, 904, 913; 522/89; 524/32; 525/54.21, 54.3; 527/312 [IMAGE AVAILABLE]

US PAT NO: 4,178,271 [IMAGE AVAILABLE]

L4: 7 of 7

ABSTRACT:

This invention relates to a sheet-like structure of polyvinyl chloride or a copolymer of vinyl chloride, which is capable of absorbing water vapor and transmitting water vapor, with a uniformly incorporated additive composed of polymeric particles of at least one swellable, modified polymer. The invention also relates to a process for manufacturing the sheet-like structure.